

AMENDMENTS TO THE CLAIMS

Claims 1-20 (canceled).

21. (New) A system for training emergency personnel to remain below a safety-critical elevation in a fire situation, the system comprising:

an emitter configured to establish a plane in free space at a safety-critical elevation; and
a wearable sensor configured to emit an alarm signal responsive to its intrusion into the plane.

22. (New) The system of claim 21, further comprising an adjustable vertical support to position the emitter at the safety-critical elevation.

23. (New) The system of claim 21, further comprising redirecting elements spaced away from the emitter to receive a signal from the emitter and extend the plane.

24. (New) The system of claim 22, further comprising a second emitter configured to combine with the emitter to establish the plane in free space at the safety-critical elevation.

25. (New) The system of claim 21, wherein the emitter establishes a 360° detection zone that forms the plane.

26. (New) The system of claim 21, wherein the emitter is an optical device that emits an optical beam.

27. (New) The system of claim 21, wherein the sensor further includes a speaker to emit an audible sound responsive to intrusion into the plane.

28. (New) The system of claim 21, further comprising a remote control unit to remotely control a vertical position of the emitter to adjust the plane.

29. (New) A system for training emergency personnel to remain below a safety-critical elevation in a fire situation, the system comprising:

an emitter configured to establish a plane;

a vertical support member adapted to position the emitter at a vertical position to establish the plane at a safety critical elevation; and

a wearable sensor configured to emit an alarm signal responsive to its intrusion into the plane.

30. (New) The system of claim 29, wherein the emitter further comprises an emitter head that is rotatably mounted to the vertical support member.

31. (New) The system of claim 29, further comprising an adjustment mechanism to selectively position the emitter at selected vertical positions.

32. (New) The system of claim 31, wherein the adjustment mechanism is configured to selectively position the emitter at selected angular positions.

33. (New) The system of claim 29, wherein the emitter further comprises a receiver that receives signals from a remote control unit to remotely adjust the position of the emitter on the vertical support member.

34. (New) The system of claim 29, wherein the sensor further includes a speaker to emit an audible sound responsive to intrusion into the plane.

35. (New) A method for training emergency personnel to remain below a safety-critical elevation in a fire situation, the system comprising:

defining a scan plane in free space at a safety-critical vertical elevation; and
providing a wearable sensor configured to emit an alarm signal responsive to its intrusion into the plane.

36. (New) The method of 35, further comprising adjusting a vertical position of the scan plane to different safety-critical vertical elevations.

37. (New) The method of 35, wherein the step of defining the scan plane in free space at the safety-critical vertical elevation comprises establishing the scan plane at a constant level that is substantially parallel to a floor.

38. (New) The method of 37, wherein the step of defining the scan plane in free space at the safety-critical vertical elevation comprises establishing the scan plane at an angle relative to the floor.

39. (New) The method of 35, further comprising configuring the wearable sensor to emit an alarm signal responsive to its intrusion into the plane.

40. (New) The method of 35, further comprising configuring the wearable sensor to stop emitting the alarm signal when the sensor is positioned back below the safety-critical vertical elevation.